3rd International Acquisition/Procurement Seminar

Cost Effective Acquisition

The Singapore Maritime Patrol Aircraft Lee Kian Kong



The Sea Lines of Communication traversing the South China Sea in the east and the Malacca Strait in the west form the shortest routes between the Pacific and Indian Oceans.

Hundreds of ships use these Sea Lines of Communication daily. This is because, despite the easy availability of air transport, the sea is still the medium of transportation for the largest portion of trade and commerce.

The dynamism of the Asia Pacific region depends largely on trade in raw materials and finished products, transported over the oceans. For Singapore, we are highly dependent on trade as this amounts to more than three times our GDP.

The importance of the sea to Singapore has not changed despite our transition from a labour intensive entreport economy to a skill intensive high value-added one. The Sea Lines of Communication remain the arteries which sustain our survival and we need to ensure that ships carrier of Singapore

Jakart 13 Sep 958 A-O-A Ltd. Hong Kong

TASK

To provide a
COST EFFECTIVE
SOLUTION

for the need of a Maritime

Patrol Aircraft

Cost Effective Acquisition

Buying Only What Is Needed

 Competing To Draw Out The Best Deal

Controlling The Risks



Beginning of Maritime Air Surveillance.....

1989



Shorts SH-7 Skyvan







Shorts SH-7 Skyvan (with radar)





Platform Selection



Thorough Front End Study

- Ops Analysis to determine
 Needs
- Definition of Requirement
- Market Survey
- Cost of the Programme

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Full-Fledged MPAs



Lockheed P3C





Modified Military Transport



C130





Remanufacture From Used Airframes



Grumman S2 Tracker





Conversion of Civil Passenger A/C



Fokker F50





British Aerospace Advanced Turbo





Buying Only What Is Needed

Getting the Cardinal Requirements Right



Competing to draw out the Best Deal

Based on Cost Effectiveness



Our Choice



Our Mindset

We were prepared to accept CIVIL aircraft



Challenges

Civil vs Military Standards

Aircraft Modifications

System Integration



Benefits

- Lower Cost
- Influence System Design and Customise to our Needs
- Best mix of system sensors
- Develop Local Capability



Controlling the Risks

Risk Control Measures

- Front-end technical feasibility study
- Sharing of developmental risks with manufacturer
- Develop in phases



Front End Study



Ensuring EMC and System Interoperability





Feasibility of Structural Modifications







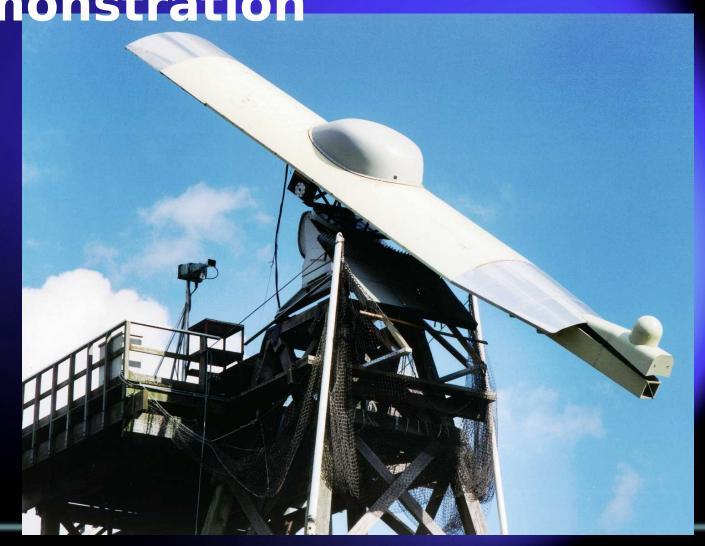
Maximum Take Off Weight



Risk Management



IRDS Feasibility Demonstration

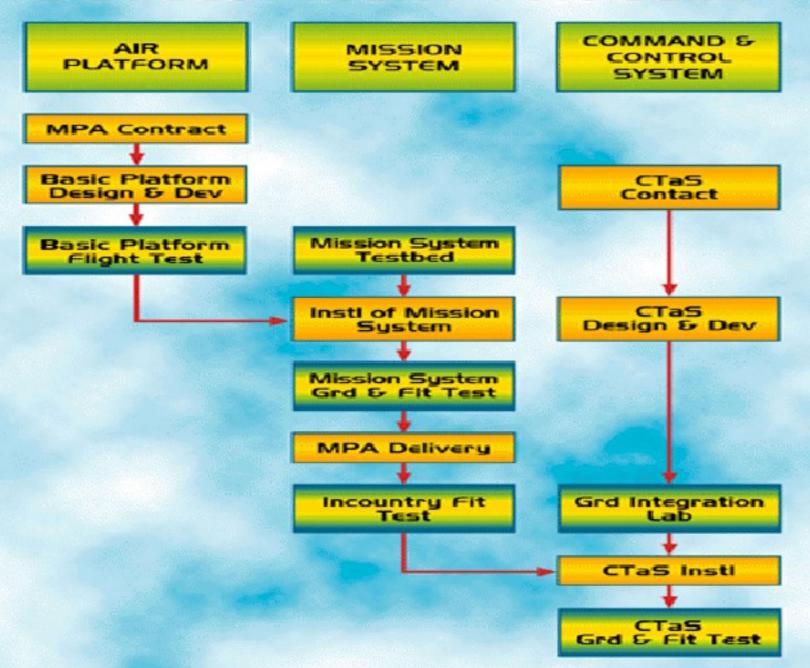




Phased Development



DEVELOPMENT PROCESS



Modification in Fokker F50



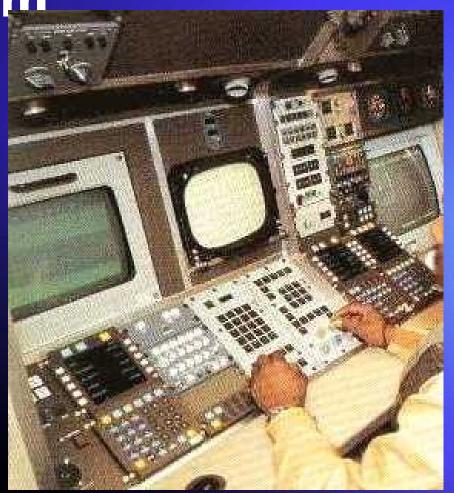






Flying Qualities

Command and Control System





Multinational

Collabarati





Fokker 50 MPA





Thank You

